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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Cantor, *et al.*
Serial No.: 09/395,409
Filed: September 14, 1999
Confirmation No.: 7542
For: **SOLID PHASE SEQUENCING OF
BIOPOLYMERS**
Art Unit: 1634
Examiner: Chakrabarti, Arun K.

CERTIFICATE OF MAILING BY "EXPRESS MAIL"
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Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202, on this date.

Jonathan Ong

TRANSMITTAL LETTER

Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

Dear Sir:

Transmitted herewith are an Amendment after Final responsive to the Final Office Action, mailed August 14, 2002, Attachment to Amendment, Marked-Up Claims, Notice of Appeal; check for \$625, representing the fees for a 3-month extension of time and fee for the Notice of Appeal. If a Petition for extension of time is needed, this paper is to be considered such Petition.

Extension fee for response within the third month:

(X) By a small entity.....\$465.00

Notice of Appeal:

(X) By a small entity.....\$160.00

(X)

The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,
HELLER EHRMAN WHITE & McAULIFFE LLP

By:

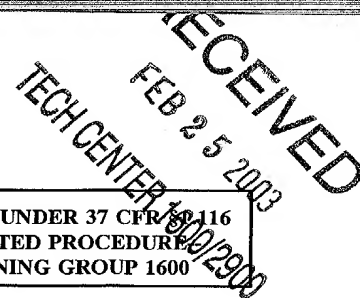
Stephanie L. Seidman, Reg. No. 33,779

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Attorney Docket No. 25491-2403D
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RESPONSE UNDER 37 CFR 1.116
--EXPEDITED PROCEDURE--
EXAMINING GROUP 1600

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Jonathan Ong

AMENDMENT AFTER FINAL

Commissioner for Patents
U.S. Patent & Trademark Office
P.O. Box 2327
Arlington, VA 22202

Dear Sir:

Responsive to the final Office Action, mailed August 14, 2002, consideration and entry of the following Amendment and remarks are respectfully requested. It is respectfully submitted that entry of the Amendment and consideration of the Remarks places the application into condition for allowance, or, alternatively, reduces the number of issues for appeal.

IN THE CLAIMS:

Please replace pending claim 1 with amended claim 1 as follows:

1. A method for sequencing a target nucleic acid, comprising the steps of:

providing a set of nucleic acid fragments each containing a sequence that corresponds to a sequence of the target nucleic acid;

hybridizing the set to an array of nucleic acid probes to form a target array of nucleic acids, wherein each probe comprises a single-stranded portion